

FIG. 2

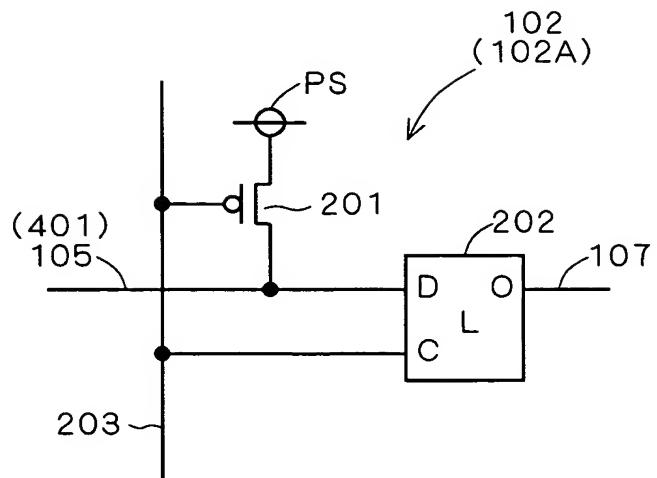


FIG. 3

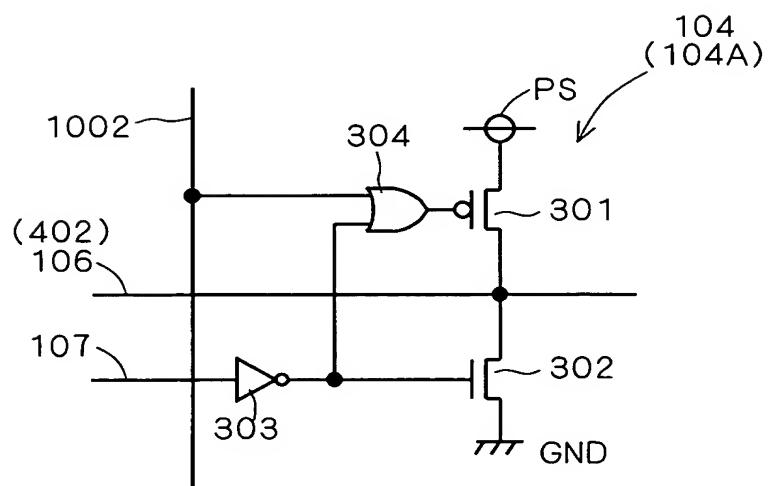
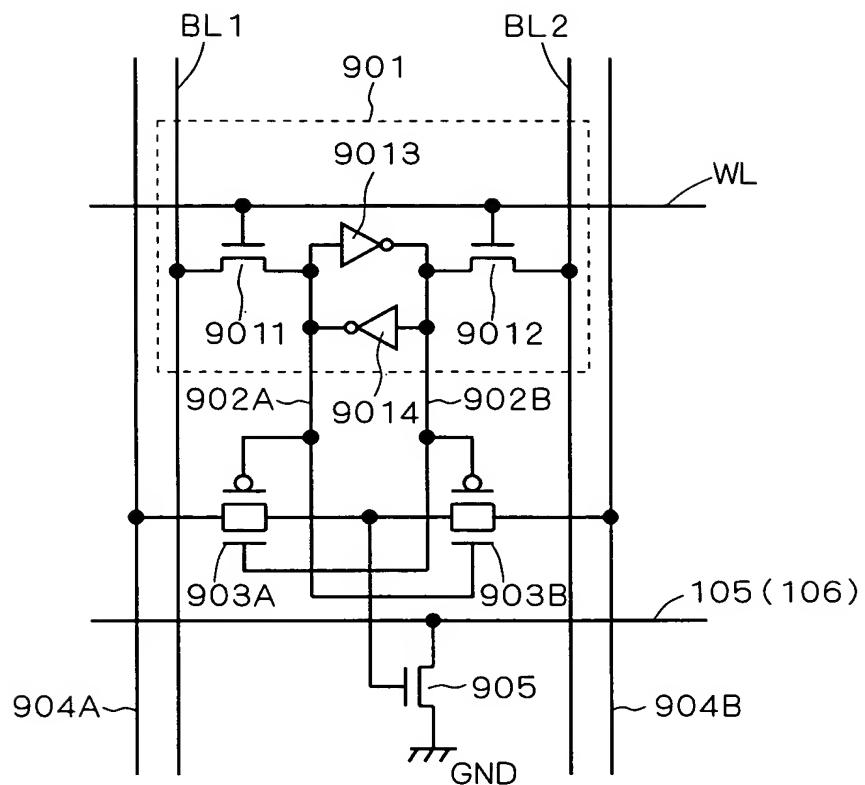
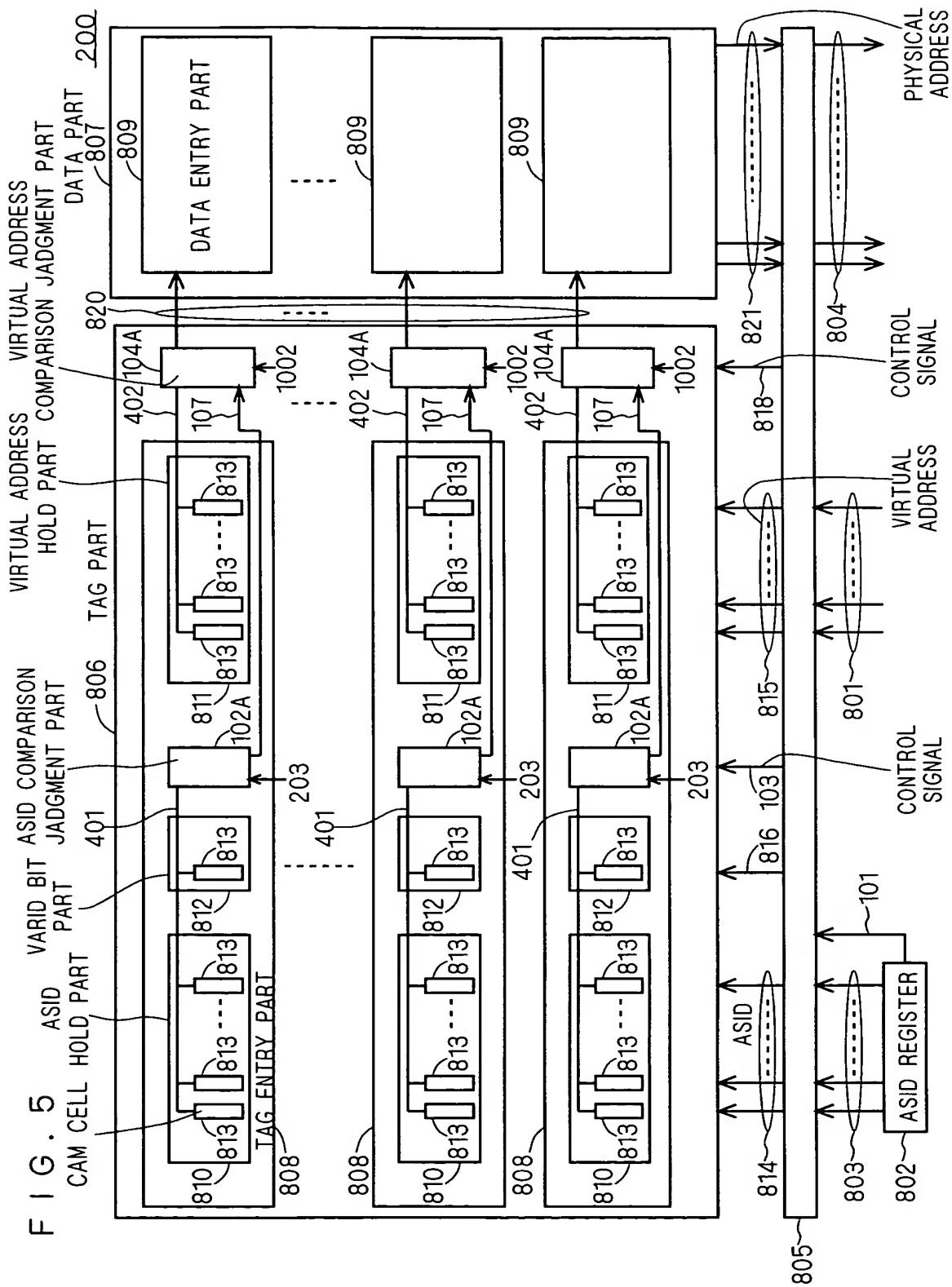


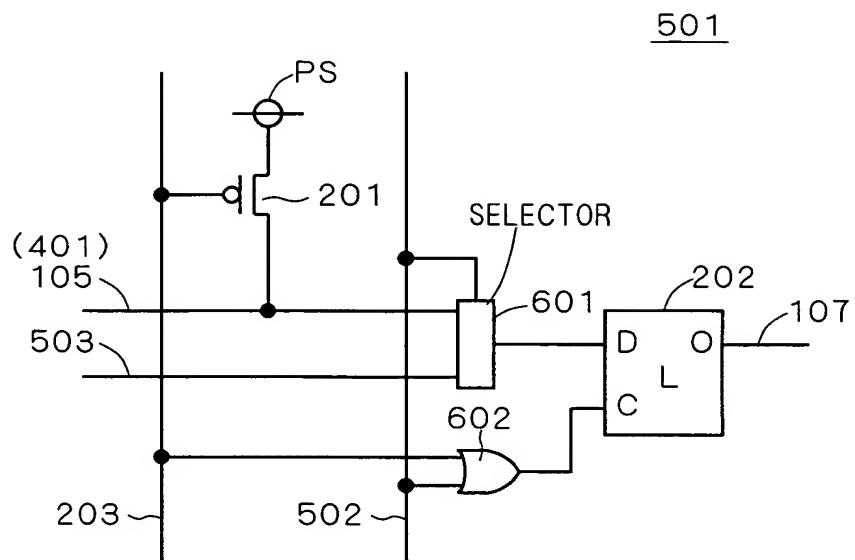
FIG. 4

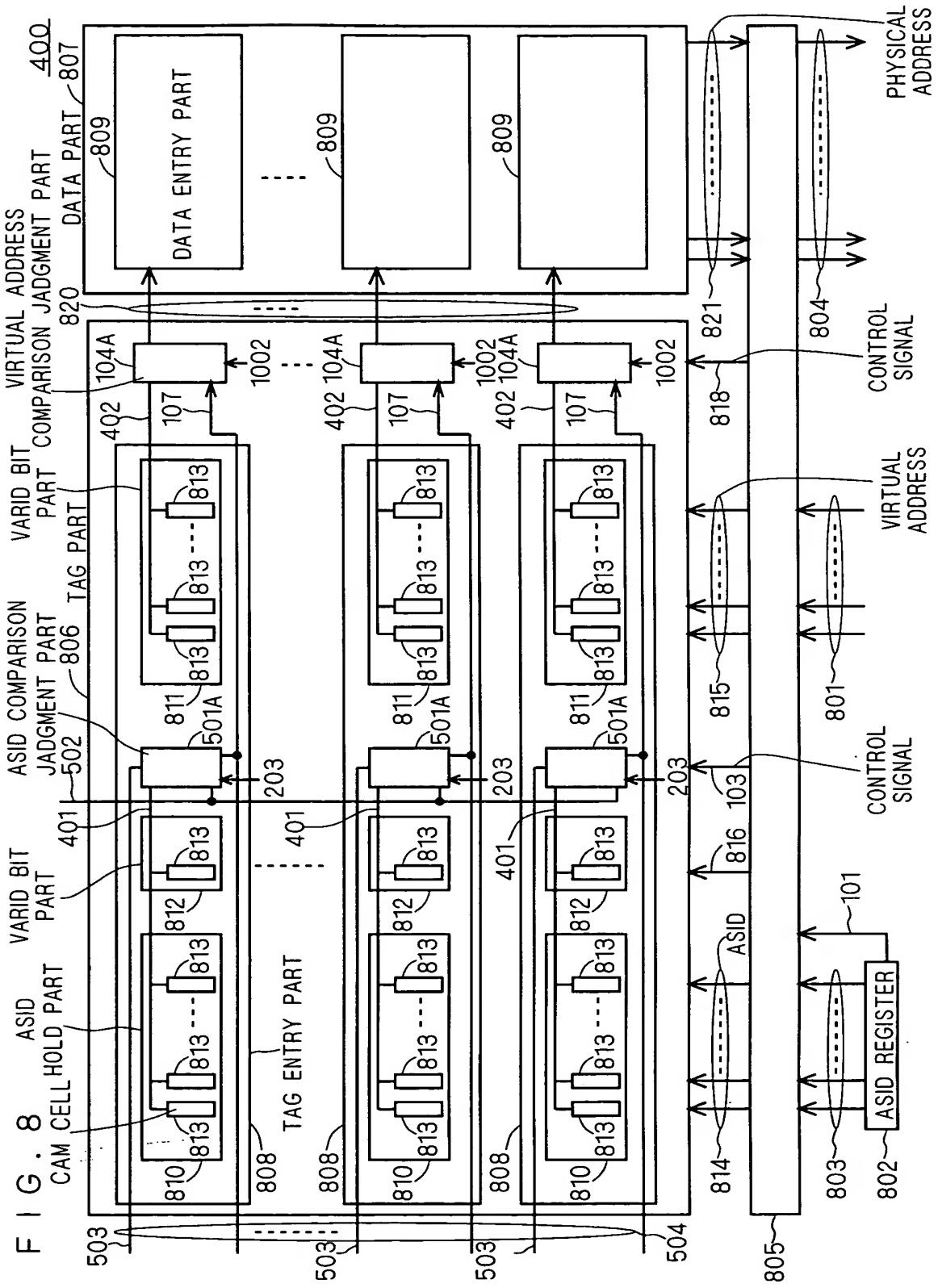




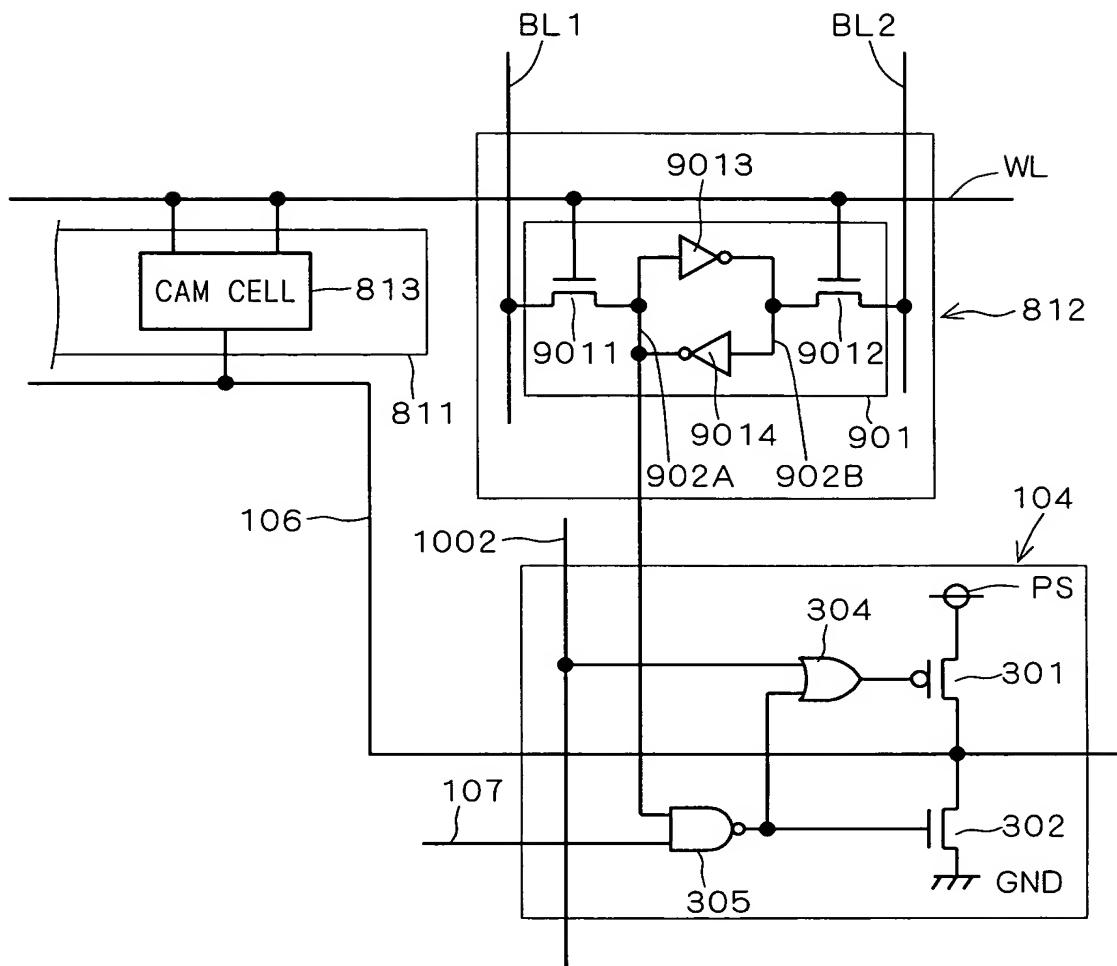
<img alt="Detailed block diagram of the F1G.6 ASID CAM cell hold part. The diagram shows a hierarchical structure of CAM cells, tag parts, and various control and data paths. Key components include the ASID COMPARISON JUDGMENT PART (502), VIRTUAL ADDRESS HOLD PART (503), TAG PART (806), VIRTUAL ADDRESS PART (807), DATA ENTRY PART (809), and CONTROL PART (805). Data paths are labeled with numbers like 808, 809, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 8010, 8011, 8012, 8013, 8014, 8015, 8016, 8017, 8018, 8019, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8028, 8029, 80200, 80201, 80202, 80203, 80204, 80205, 80206, 80207, 80208, 80209, 80210, 80211, 80212, 80213, 80214, 80215, 80216, 80217, 80218, 80219, 80220, 80221, 80222, 80223, 80224, 80225, 80226, 80227, 80228, 80229, 802200, 802201, 802202, 802203, 802204, 802205, 802206, 802207, 802208, 802209, 802210, 802211, 802212, 802213, 802214, 802215, 802216, 802217, 802218, 802219, 802220, 802221, 802222, 802223, 802224, 802225, 802226, 802227, 802228, 802229, 802230, 802231, 802232, 802233, 802234, 802235, 802236, 802237, 802238, 802239, 802240, 802241, 802242, 802243, 802244, 802245, 802246, 802247, 802248, 802249, 802250, 802251, 802252, 802253, 802254, 802255, 802256, 802257, 802258, 802259, 802260, 802261, 802262, 802263, 802264, 802265, 802266, 802267, 802268, 802269, 802270, 802271, 802272, 802273, 802274, 802275, 802276, 802277, 802278, 802279, 802280, 802281, 802282, 802283, 802284, 802285, 802286, 802287, 802288, 802289, 8022800, 8022801, 8022802, 8022803, 8022804, 8022805, 8022806, 8022807, 8022808, 8022809, 8022810, 8022811, 8022812, 8022813, 8022814, 8022815, 8022816, 8022817, 8022818, 8022819, 8022820, 8022821, 8022822, 8022823, 8022824, 8022825, 8022826, 8022827, 8022828, 8022829, 8022830, 8022831, 8022832, 8022833, 8022834, 8022835, 8022836, 8022837, 8022838, 8022839, 8022840, 8022841, 8022842, 8022843, 8022844, 8022845, 8022846, 8022847, 8022848, 8022849, 8022850, 8022851, 8022852, 8022853, 8022854, 8022855, 8022856, 8022857, 8022858, 8022859, 8022860, 8022861, 8022862, 8022863, 8022864, 8022865, 8022866, 8022867, 8022868, 8022869, 8022870, 8022871, 8022872, 8022873, 8022874, 8022875, 8022876, 8022877, 8022878, 8022879, 8022880, 8022881, 8022882, 8022883, 8022884, 8022885, 8022886, 8022887, 8022888, 8022889, 8022890, 8022891, 8022892, 8022893, 8022894, 8022895, 8022896, 8022897, 8022898, 8022899, 80228000, 80228001, 80228002, 80228003, 80228004, 80228005, 80228006, 80228007, 80228008, 80228009, 80228010, 80228011, 80228012, 80228013, 80228014, 80228015, 80228016, 80228017, 80228018, 80228019, 80228020, 80228021, 80228022, 80228023, 80228024, 80228025, 80228026, 80228027, 80228028, 80228029, 80228030, 80228031, 80228032, 80228033, 80228034, 80228035, 80228036, 80228037, 80228038, 80228039, 80228040, 80228041, 80228042, 80228043, 80228044, 80228045, 80228046, 80228047, 80228048, 80228049, 80228050, 80228051, 80228052, 80228053, 80228054, 80228055, 80228056, 80228057, 80228058, 80228059, 80228060, 80228061, 80228062, 80228063, 80228064, 80228065, 80228066, 80228067, 80228068, 80228069, 80228070, 80228071, 80228072, 80228073, 80228074, 80228075, 80228076, 80228077, 80228078, 80228079, 80228080, 80228081, 80228082, 80228083, 80228084, 80228085, 80228086, 80228087, 80228088, 80228089, 80228090, 80228091, 80228092, 80228093, 80228094, 80228095, 80228096, 80228097, 80228098, 80228099, 802280100, 802280101, 802280102, 802280103, 802280104, 802280105, 802280106, 802280107, 802280108, 802280109, 802280110, 802280111, 802280112, 802280113, 802280114, 802280115, 802280116, 802280117, 802280118, 802280119, 802280120, 802280121, 802280122, 802280123, 802280124, 802280125, 802280126, 802280127, 802280128, 802280129, 802280130, 802280131, 802280132, 802280133, 802280134, 802280135, 802280136, 802280137, 802280138, 802280139, 802280140, 802280141, 802280142, 802280143, 802280144, 802280145, 802280146, 802280147, 802280148, 802280149, 802280150, 802280151, 802280152, 802280153, 802280154, 802280155, 802280156, 802280157, 802280158, 802280159, 802280160, 802280161, 802280162, 802280163, 802280164, 802280165, 802280166, 802280167, 802280168, 802280169, 802280170, 802280171, 802280172, 802280173, 802280174, 802280175, 802280176, 802280177, 802280178, 802280179, 802280180, 802280181, 802280182, 802280183, 802280184, 802280185, 802280186, 802280187, 802280188, 802280189, 802280190, 802280191, 802280192, 802280193, 802280194, 802280195, 802280196, 802280197, 802280198, 802280199, 802280200, 802280201, 802280202, 802280203, 802280204, 802280205, 802280206, 802280207, 802280208, 802280209, 802280210, 802280211, 802280212, 802280213, 802280214, 802280215, 802280216, 802280217, 802280218, 802280219, 802280220, 802280221, 802280222, 802280223, 802280224, 802280225, 802280226, 802280227, 802280228, 802280229, 802280230, 802280231, 802280232, 802280233, 802280234, 802280235, 802280236, 802280237, 802280238, 802280239, 802280240, 802280241, 802280242, 802280243, 802280244, 802280245, 802280246, 802280247, 802280248, 802280249, 802280250, 802280251, 802280252, 802280253, 802280254, 802280255, 802280256, 802280257, 802280258, 802280259, 802280260, 802280261, 802280262, 802280263, 802280264, 802280265, 802280266, 802280267, 802280268, 802280269, 802280270, 802280271, 802280272, 802280273, 802280274, 802280275, 802280276, 802280277, 802280278, 802280279, 802280280, 802280281, 802280282, 802280283, 802280284, 802280285, 802280286, 802280287, 802280288, 802280289, 802280290, 802280291, 802280292, 802280293, 802280294, 802280295, 802280296, 802280297, 802280298, 802280299, 802280300, 802280301, 802280302, 802280303, 802280304, 802280305, 802280306, 802280307, 802280308, 802280309, 802280310, 802280311, 802280312, 802280313, 802280314, 802280315, 802280316, 802280317, 802280318, 802280319, 802280320, 802280321, 802280322, 802280323, 802280324, 802280325, 802280326, 802280327, 802280328, 802280329, 802280330, 802280331, 802280332, 802280333, 802280334, 802280335, 802280336, 802280337, 802280338, 802280339, 802280340, 802280341, 802280342, 802280343, 802280344, 802280345, 802280346, 802280347, 802280348, 802280349, 802280350, 802280351, 802280352, 802280353, 802280354, 802280355, 802280356, 802280357, 802280358, 802280359, 802280360, 802280361, 802280362, 802280363, 802280364, 802280365, 802280366, 802280367, 802280368, 802280369, 802280370, 802280371, 802280372, 802280373, 802280374, 802280375, 802280376, 802280377, 802280378, 802280379, 802280380, 802280381, 802280382, 802280383, 802280384, 802280385, 802280386, 802280387, 802280388, 802280389, 802280390, 802280391, 802280392, 802280393, 802280394, 802280395, 802280396, 802280397, 802280398, 802280399, 802280400, 802280401, 802280402, 802280403, 802280404, 802280405, 802280406, 802280407, 802280408, 802280409, 802280410, 802280411, 802280412, 802280413, 802280414, 802280415, 802280416, 802280417, 802280418, 802280419, 802280420, 802280421, 802280422, 802280423, 802280424, 802280425, 802280426, 802280427, 802280428, 802280429, 802280430, 802280431, 802280432, 802280433, 802280434, 802280435, 802280436, 802280437, 802280438, 802280439, 802280440, 802280441, 802280442, 802280443, 802280444, 802280445, 802280446, 802280447, 802280448, 802280449, 802280450, 802280451, 802280452, 802280453, 802280454, 802280455, 802280456, 802280457, 802280458, 802280459, 802280460, 802280461, 802280462, 802280463, 802280464, 802280465, 802280466, 802280467, 802280468, 802280469, 802280470, 802280471, 802280472, 802280473, 802280474, 802280475, 802280476, 802280477, 802280478, 802280479, 802280480, 802280481, 802280482, 802280483, 802280484, 802280485, 802280486, 802280487, 802280488, 802280489, 802280490, 802280491, 802280492, 802280493, 802280494, 802280495, 802280496, 802280497, 802280498, 802280499, 802280500, 802280501, 802280502, 802280503, 802280504, 802280505, 802280506, 802280507, 802280508, 802280509, 802280510, 802280511, 802280512, 802280513, 802280514, 802280515, 802280516, 802280517, 802280518, 802280519, 802280520, 802280521, 802280522, 802280523, 802280524, 802280525, 802280526, 802280527, 802280528, 802280529, 802280530, 802280531, 802280532, 802280533, 802280534, 802280535, 802280536, 802280537, 802280538, 802280539, 802280540, 802280541, 802280542, 802280543, 802280544, 802280545, 802280546, 802280547, 802280548, 802280549, 802280550, 802280551, 802280552, 802280553, 802280554, 802280555, 802280556, 802280557, 802280558, 802280559, 802280560, 802280561, 802280562, 802280563, 802280564, 802280565, 802280566, 802280567, 802280568, 802280569, 802280570, 802280571, 802280572, 802280573, 802280574, 802280575, 802280576, 802280577, 802280578, 802280579, 802280580, 802280581, 802280582, 802280583, 802280584, 802280585, 802280586, 802280587, 802280588, 802280589, 802280590, 802280591, 802280592, 802280593, 802280594, 802280595, 802280596, 802280597, 802280598, 802280599, 802280600, 802280601, 802280602, 802280603,

FIG. 7





F I G . 9



F I G . 1 0

